Amendments to the Claims:

The following Listing of Claims replaces all previous versions and listings of the claims in this application.

Listing of Claims:

1-10 (Cancelled).

11 (Currently Amended): Crystals of a <u>cytokine</u> receptor protein <u>of the Class I</u>

<u>Cytokine family, modified in the extracellular domain, wherein at least one terminal molecule</u>

<u>segment which contributes to a disordered structure is deleted, the modified protein being</u>

<u>capable of being crystallized without being complexed to a ligand molecule, according to any</u>

<u>of claims 1 to 10 to any of claims 1-10</u> suitable for binding studies with ligand candidates.

12 (Currently Amended): Crystals according to claim 11, wherein the contact surface between two molecules is between 200 to 1800 Å² (square ångström) and more preferably between 100 to 900Å² (square ångström).

13 (Currently Amended): Crystals according to claim 11 or 12 containing at least 50 % (v/v) of a solvent acceptable for binding studies.

14 (Original): Crystals according to claim 13 containing about 60 to 80 % (v/v) of a solvent.

15 (Currently Amended): Crystals according to <u>claim 11</u> any of claims 11 to 14 capable of being frozen with gaseous or liquid nitrogen with maintained capacity of diffraction to at least 3.5Å by using synchrotron radiation source.

- 16 (Currently Amended): Crystals according to claim 15 capable of being frozen with gaseous or liquid nitrogen with maintained capacity of diffraction to at least 2.3 3.5 Å by using synchrotron radiation source.
- 17 (Currently Amended): Crystals according to <u>claim 11</u> any of claims 11 to 16 capable of being resistant to an addition of up to 10% (v/v) of DMSO (dimethylsulfoxide) and up to 5 % (v/v) of DMF (dimethylfluoride) for at least 24 hours.
- 18 (Currently Amended): Crystals according to <u>claim 11</u>, any of claims 11 to 17 characterized in that they are formed at pH between 5.0 to 8.5.
- 19 (Currently Amended): Crystals according to claim 18, characterized in that they are formed at a pH between 7.0 and 8.0.
- 20 (Currently Amended): Crystals according to claim 11, any of claims 11-to-17 formed in the presence of one or more salts having a concentration between 0.15 M and 1.0 M.
- 21 (Original): Crystals according to claim 20, wherein the salt(s) is(are) selected from a group consisting of ammonium sulfate, lithium sulfate, sodium phosphate, potassium phosphate, sodium chloride, lithium chloride, ammonium acetate, sodium acetate, magnesium chloride, sodium formate and sodium citrate.

22-25 (Cancelled).

- 26 (Currently Amended): A method of obtaining improved cytokine receptor crystals of a cytokine receptor protein of the Class I Cytokine family involving the subsequent steps of:
- (i) solving the receptor three-dimensional structure complexed to a ligand by crystallographic methods,
- (ii) identifying <u>at least one terminal molecule segment</u> regions of the receptor molecule which <u>contributes</u> may contribute to disorder in a crystalline state,
 - (iii) producing modified receptor molecules without said segment regions, and
 - (iv) crystallizing the modified receptor without the presence of a ligand.
- 27 (Currently Amended): A method according to claim 26, wherein said segment is in involving the extracellular part of the receptor.
- 28 (Currently Amended): A method according to claim 26 or 27, wherein said receptor is human growth hormone receptor.
- 29 (Original): A method according to claim 28, wherein said ligand is human growth hormone.
- 30 (New): Crystals according to claim 12, wherein the contact surface between two molecules is between 100 to 900 Å² (square Ångström).

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31 (New): Crystals according to claim 11, wherein the cytokine receptor protein is human growth hormone receptor (hGHR) consisting of residues 32-237 (SEQ ID NO: 2), 32-234 (SEQ ID NO: 3), or 34-233 (SEQ ID NO: 4), of the native hGHR molecule.

32 (New): Crystals according to claim 11, wherein the cytokine receptor protein is human growth hormone receptor (hGHR) consisting of residues 32-237 (SEQ ID NO: 2), of the native hGHR molecule.